

FILE ID**GETQS

15

```
1 P 0001 0 MODULE getqs ( IDENT = 'V04-000'  
2      0   %BLISS32%, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,  
3      0   NONEXTERNAL = LONG_RELATIVE)  
4      0 ) =  
5      1 BEGIN  
6      1 *****  
7      1 *  
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26     1 *  
27     1 *  
28     1 *****  
29     1 *  
30     1 **  
31     1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
32     1 ABSTRACT: Isolates a string delimited by '' or '".  
33     1 ENVIRONMENT: Transportable  
34     1 AUTHOR: R.W.Friday CREATION DATE: May, 1978  
35     1  
36     1  
37     1  
38     1  
39     1
```

GETQS
V04-000

Revision History

K 5
16-Sep-1984 00:41:08 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:06:34 DISK\$VMSMASTER:[RUNOFF.SRC]GETQS.BLI;1 Page 2
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GLB
V04

41 0040 1 %SBTTL 'Revision History'
42 0041 1
43 0042 1 MODIFIED BY:
44 0043 1
45 0044 1 003 RER00003 Ron Randall 07-Mar-1983
46 0045 1 Global edit of all modules. Updated module names, idents,
47 0046 1 copyright dates. Changed require files to BLISS library.
48 0047 1
49 0048 1 !--
50 0049 1

Module Level Declarations

L 5
16-Sep-1984 00:41:08
14-Sep-1984 13:06:34
VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GETQS.BLI;1 Page 3
(3)

```
52 0050 1 %SBTTL 'Module Level Declarations'  
53 0051 1  
54 0052 1  
55 0053 1 | TABLE OF CONTENTS:  
56 0054 1 |  
57 0055 1 | INCLUDE FILES:  
58 0056 1  
59 0057 1 LIBRARY 'NXPORT:XPORT';  
60 0058 1 REQUIRE 'REQ:RNODEF';  
61 0189 1  
U 0190 1 XIF DSRPLUS %THEN  
U 0191 1 LIBRARY 'REQ:DPLLIB';  
64 0192 1 XELSE  
65 0193 1 LIBRARY 'REQ:DSRLIB';  
66 0194 1 XFI  
67 0195 1  
68 0196 1 |  
69 0197 1 | EXTERNAL REFERENCES:  
70 0198 1 |  
71 0199 1 EXTERNAL_LITERAL  
72 0200 1 RINTES : UNSIGNED (8);  
73 0201 1  
74 0202 1 EXTERNAL  
75 0203 1 IRA : FIXED_STRING,  
76 0204 1 KHAR;  
77 0205 1
```

```
79 0206 1 GLOBAL ROUTINE GETQS (OUTPUT) =
80 0207 1
81 0208 1 ++
82 0209 1 FUNCTIONAL DESCRIPTION:
83 0210 1
84 0211 1 GETQS expects the next input character to be either a """
85 0212 1 or a """. It collects all characters up through the
86 0213 1 matching """ or """ and returns them in OUTPUT.
87 0214 1
88 0215 1 FORMAL PARAMETERS:
89 0216 1
90 0217 1 The results are returned in OUTPUT.
91 0218 1
92 0219 1 IMPLICIT INPUTS: None
93 0220 1
94 0221 1 IMPLICIT OUTPUTS: None
95 0222 1
96 0223 1 ROUTINE VALUE:
97 0224 1 COMPLETION CODES:
98 0225 1
99 0226 1 See GETQSC.REQ for a list of completion codes.
100 0227 1
101 0228 1 SIDE EFFECTS: None
102 0229 1 !--
103 0230 1
104 0231 2 BEGIN
105 0232 2 LOCAL
106 0233 2 TERMINATOR;
107 0234 2
108 0235 2 MAP
109 0236 2 OUTPUT : REF FIXED_STRING;
110 0237 2
111 0238 2 IF .KHAR EQ RINTES
112 0239 2 THEN !Nothing on line.
113 0240 2 RETURN GETQS_NONE;
114 0241 2
115 0242 3 TERMINATOR = (SELECTONE .KHAR OF
116 0243 3 SET
117 0244 3 [%C''] : .KHAR;
118 0245 3 [OTHERWISE] : RETURN GETQS_NONE;
119 0246 2 TES);
120 0247 2
121 0248 2 FS INIT (OUTPUT);
122 0249 2 KCNS (); !Skip over the initial delimiter.
123 0250 2
124 0251 2 WHILE .KHAR NEQ RINTES
125 0252 2 AND .KHAR NEQ .TERMINATOR DO
126 0253 3 BEGIN
127 0254 3
128 0255 3 IF .FS_LENGTH (OUTPUT) EQ .FS_MAXSIZE (OUTPUT)
129 0256 3 THEN !Skip extra characters.
130 0257 4 BEGIN
131 0258 4
132 0259 4 WHILE .KHAR NEQ RINTES
133 0260 4 AND (.KHAR NEQ .TERMINATOR) DO
134 0261 4 KCNS ();
135 0262 4
```

Module Level Declarations

N 5
16-Sep-1984 00:41:08
14-Sep-1984 13:06:34
VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GETQS.BLI;1 Page 5 (4)

```

136 0263 4 IF .KHAR EQL .TERMINATOR
137 0264 4 THEN KCNS ();
138 0265 4
139 0266 4
140 0267 4 RETURN GETQS_TOO_LONG;
141 0268 3 END;
142 0269 3
143 0270 3 FS_WCHAR (OUTPUT, .KHAR);
144 0271 3 KCNS (); !Get next character.
145 0272 2 END;
146 0273 2
147 0274 2 IF .KHAR NEQ RINTES
148 0275 2 THEN KCNS () !Skip delimiter, unless it's end of record.
149 0276 3 ELSE RETURN GETQS_BAD; !Trailing terminator missing.
150 0277 2
151 0278 2
152 0279 2
153 0280 2 !Reset pointer to start of result, so user can do a simple
154 0281 2 !series of fs_rchar's to process it.
155 0282 2 FS_NEXT (OUTPUT) = .FS_START (OUTPUT);
156 0283 2 RETURN GETQS_NORMAL
157 0284 1 END; !End of GETQS

```

```

.TITLE GETQS
.IDENT \V04-000\
.EXTRN RINTES, IRA, KHAR
.PSECT $CODE$,NOWRT,2

```

			001C 00000	.ENTRY GETQS, Save R2,R3,R4	0206
	54	00G	8F 9A 00002	MOVZBL #RINTES, R4	
	53	00000000G	EF 9E 00006	MOVAB KHAR, R3	
	52	00000000G	EF 9E 0000D	MOVAB IRA+12, R2	
	50		63 D0 00014	MOVL KHAR, R0	0238
	54		50 D1 00017	CMPL R0, R4	
	22		0A 13 0001A	BEQL 1\$	
	27		50 D1 0001C	CMPL R0, #34	0244
			09 13 0001F	BEQL 2\$	
			50 D1 00021	CMPL R0, #39	
			04 13 00024	BEQL 2\$	
	50		03 D0 00026 1\$: 04 00029	MOVL #3, R0	0245
			04 00029	RET	
	51	04	AC D0 0002A 2\$: 0C A1 D4 0002E	MOVL OUTPUT, R1	0248
			0C A1 D4 0002E	CLRL 12(R1)	
	04	A1	10 A1 9E 00031	MOVAB 16(R1), (R1)	
			61 D0 00035	MOVL (R1), 4(R1)	
			63 11 00039	BRB 11\$	0249
	63	F8	B2 9A 0003B 3\$: F8 A2 D6 0003F	MOVZBL @IRA+4, KHAR	
			F8 A2 D6 0003F	INCL IRA+4	
			62 D7 00042	DECL IRA+12	
	54		63 D1 00044 4\$: 61 13 00047	CMPL KHAR, R4	0251
			63 D1 00044	BEQL 12\$	
	50		63 D1 00049	CMPL KHAR, TERMINATOR	0252
			5C 13 0004C	BEQL 12\$	
	08	A1	OC A1 D1 0004E	CMPL 12(R1), 8(R1)	0255

		54	3F	12	00053		BNEQ	10\$			
			63	D1	00055	5\$:	CMPL	KHAR, R4		0259	
		50	1C	13	00058		BEQL	7\$			
			63	D1	0005A		CMPL	KHAR, TERMINATOR		0260	
			17	13	0005D		BEQL	7\$			
			62	D5	0005F		TSTL	IRA+12		0261	
			08	14	00061		BGTR	6\$			
		63	54	9A	00063		MOVZBL	R4, KHAR			
		62	01	CE	00066		MNEGL	#1, IRA+12			
			EA	11	00069		BRB	5\$			
		63	F8	B2	9A	0006B	6\$::	MOVZBL	@IRA+4, KHAR		
			F8	A2	D6	0006F		INCL	IRA+4		
			62	D7	00072		DECL	IRA+12			
			DF	11	00074		BRB	5\$			
		50	63	D1	00076	7\$::	CMPL	KHAR, TERMINATOR		0263	
			15	12	00079		BNEQ	9\$			
			62	D5	0007B		TSTL	IRA+12		0265	
			08	14	0007D		BGTR	8\$			
		63	54	9A	0007F		MOVZBL	R4, KHAR			
		62	01	CE	00082		MNEGL	#1, IRA+12			
			09	11	00085		BRB	9\$			
		63	F8	B2	9A	00087	8\$::	MOVZBL	@IRA+4, KHAR		
			F8	A2	D6	0008B		INCL	IRA+4		
			62	D7	0008E		DECL	IRA+12			
		50	02	D0	00090	9\$::	MOVL	#2, R0		0267	
				04	00093		RET				
04	B1		63	90	00094	10\$::	MOVB	KHAR, @4(R1)		0270	
			04	A1	D6	00098	INCL	4(R1)			
			0C	A1	D6	0009B	INCL	12(R1)			
				62	D5	0009E	11\$::	TSTL	IRA+12	0271	
		63	99	14	000A0		BGTR	3\$			
		62	54	9A	000A2		MOVZBL	R4, KHAR			
		62	01	CE	000A5		MNEGL	#1, IRA+12			
			9A	11	000A8		BRB	4\$			
		54	63	D1	000AA	12\$::	CMPL	KHAR, R4		0274	
			17	13	000AD		BEQL	14\$		000	
			62	D5	000AF		TSTL	IRA+12		0276	
			08	14	000B1		BGTR	13\$			
		63	54	9A	000B3		MOVZBL	R4, KHAR			
		62	01	CE	000B6		MNEGL	#1, IRA+12			
			0F	11	000B9		BRB	15\$			
		63	F8	B2	9A	000BB	13\$::	MOVZBL	@IRA+4, KHAR		
			F8	A2	D6	000BF	INCL	IRA+4			
			62	D7	000C2		DECL	IRA+12			
			04	11	000C4		BRB	15\$			
		50	50	D0	000C6	14\$::	MOVL	#1, R0		0278	
		04	A1	61	D0	000CA	15\$::	RET	(R1), 4(R1)		0282
				50	D4	000CE		MOVL	CLRL R0		0283
				04	000D0		RET			0284	

; Routine Size: 209 bytes, Routine Base: \$CODE\$ + 0000

: 158
: 159
: 1600285 1
0286 1 END
0287 0 ELUDOM

!End of module

GETQS
V04-000

Module Level Declarations

C 6
16-Sep-1984 00:41:08
14-Sep-1984 13:06:34
VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]GETQS.BLI;1 Page 7
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PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	209	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA2B:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.1
-\$255\$DUA2B:[RUNOFF.SRC]DSRLIB.L32;1	1248	17	1	86	00:00.3

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:GETQS/OBJ=OBJ\$:GETQS MSRC\$:GETQS/UPDATE=(ENH\$:GETQS)

: Size: 209 code + 0 data bytes
: Run Time: 00:05.9
: Elapsed Time: 00:14.8
: Lines/CPU Min: 2898
: Lexemes/CPU-Min: 19767
: Memory Used: 77 pages
: Compilation Complete

0342 AH-BT13A-SE
VAX/VMS V4.0

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